

PICO In



The Xerafy PICO In offers a highly reliable RFID proposition thanks to its unique embeddable design. Its breakthrough read distance to size ratio makes it ideally suited for OEM manufacturers looking to bring native RFID capabilities to their equipments for MRO, Oil and Gas, Energy and Military.



Fits small size



Powerful
on-metal performance



Exceptional
durability



Embeddable



Hi-Temp



Performance Characteristics

Read range (handheld) ¹	Up to 4.6 ft (1.4 m)
Read range (fixed) ¹	Up to 7 ft (2 m)
Polarization	Linear
Attachment	Epoxy, injection mould

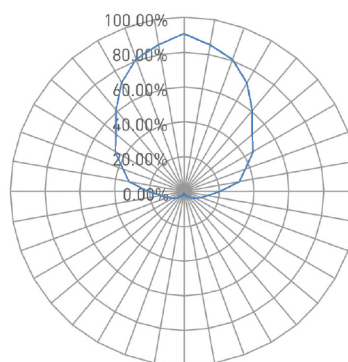
¹. Performance based on standard testing methodologies.
Performance may vary depending on environmental factors and reader output power.

Functional Specifications

RF protocol	EPC global Class 1 Gen2
Frequency	902-928 (US) ; 865-868 (EU)
IC type (chip) ¹	NXP UCODE 8
Memory ²	128 bits EPC, 96 bits TID, User memory (optional)
Material	Ceramic

- The chip data retention is up to 50 years, based on chip operating under general environment conditions.
- EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

Radiation Pattern



- Hand Tools and Equipments
- Oil Wells Equipments
- MRO Tool Tracking

Environmental Specifications

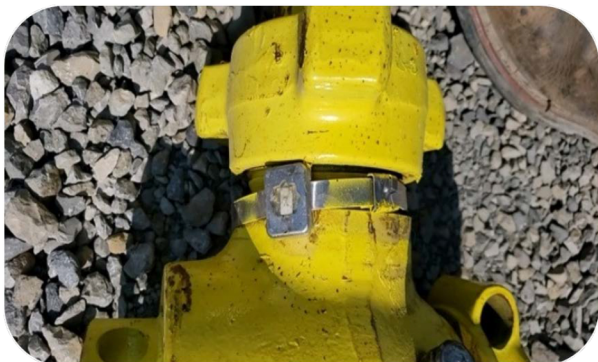
Operational temperature	-30°C to +85°C
Survival temperature	-40°C to +150°C (long term)
Peak temperature	+220°C
IP rating	IP68
Shock (drop)	3 ft (1 m) to concrete/granite
Vibration	MIL-STD-810G

Industry Compliance

RoHS	EU Directive 2011/65/EU
CE	Yes
ATEX/IECEx	Compliant
Warranty	1 year

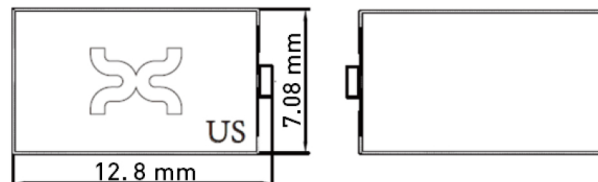
Order Information

X3210-US000-U8	PICO In US
X3210-EU000-U8	PICO In EU
Optional service	Encoding / Printing / Laser Etching

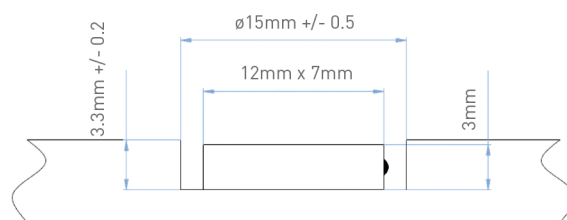


Product Dimensions and Weight

Dimensions (in)	ø 0.5 x 0.28 x 0.12
Tolerance	+/- 0.004
Dimensions (mm)	12.8 x 7.08 x 3.08
Tolerance	+/- 0.1
Weight	0.05 oz (1.4 g)



Installation Instructions



To properly embed PICO In, first prepare a socket to meet the dimensions shown in the socket dimension figure above.

1. Apply epoxy to bottom of tag
2. Position tag in center of socket
3. Fill in socket with resin
4. Make sure to fill any gaps between tag and socket wall
5. Allow resin to cure and tag is ready for use

About Xerafy

Xerafy designs and manufactures the world's toughest RFID tags to power Industrial IoT applications in Aerospace, Oil & Gas, Automotive, Healthcare and Manufacturing.

